

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"Sample and Analysis"	Port	New Bedford, MA	Report	113607
Customer	Sprague Energy	Date	November 15, 2007	Reference	
Operation	Analysis	Terminal	Sprague New Bedford	Sample #	1416713

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

1.0% No 6 Fuel Oil

Shore Tank #3
Inspectorate
Inspectorate

Tests being Performed	Test method	Sample Results
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Gravity API @ 60F / Density	D - 4052	11.1 / 0.9921
Flash Point, PMCC, F	D - 93	230
Viscosity cSt @ 122F	D - 445	392.5
Viscosity SSF @ 122F	D - 2161	185.3
Pour Point C / F	D - 97	9 / 48
Sulfur, Wt%	D - 4294	0.777
Water and Sediment, Vol %	D - 1796	0.50
Sediment by Extraction, Wt%	D - 473	0.12
Water by Distillation, Vol%	D - 95	0.1
Gross Heat of Combustion, BTU / lb	D - 240	18,375
Gross Heat of Combustion, BTU / gal	D - 240	151,851
Ash, wt %	D - 482	0.07
Vanadium, ppm	D - 5863B	16
Sodium, ppm	D - 5863B	35
Nitrogen, wt%	D - 5762	0.434
Ashphaltenes, wt%	IP - 143	1.62
Conradson Carbon Residue	D - 189	9.38
Aluminum, ppm	D - 5184	37
Silicon, ppm	D - 5184	56

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** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by Inspectorate